

**AMENDMENTS TO THE CLAIMS:**

1. Claims 1 – 51. (Canceled)
52. (Currently amended) A two-cycle fuel composition comprising a base fuel and at least one addition wherein the additive comprises:
  - a plant oil extract derived from grain;
  - a carotenoid; and
  - a thermal stabilizer.
53. (Currently amended) The two-cycle fuel composition of claim 52, wherein the grain is selected from the group consisting of fescue, clover, wheat, barley, oats, rye, sorghum, flax, triticale, rice, corn, spelt, millet, amaranth, buckwheat, quinoa, kamut and teff.
54. (Currently amended) The two-cycle fuel composition of claim 52 wherein the carotenoid is selected from the group consisting of  $\beta$ -carotene,  $\alpha$ -carotene, lycopene, leutin, betatene and mixtures thereof.
55. (Currently amended) The two-cycle fuel composition of claim 52, wherein the thermal stabilizer is selected from the group consisting of vegetable oils, nut oils, animal oils and mixtures thereof.
56. (Currently amended) The two-cycle fuel composition of claim 52 wherein the plant oil extract is derived from barley and the carotenoid is  $\beta$ -carotene.
57. (Currently amended) The two-cycle fuel composition of claim 52 wherein the thermal stabilizer is meadowfoam oil.
58. (Currently amended) The two-cycle fuel composition of claim 52 further comprising a diluent.
59. (Currently amended) The two-cycle fuel composition of claim 58 further comprising a solvent selected from the group consisting of toluene, benzene, o-xylene, m-xylene, p-xylene, cyclohexanes,

hexane, octanes, nonanes, two-cycle oil, jet fuel, diesel fuel, gasoline, resid fuel and mixtures thereof.

60. (Currently amended) The two-cycle fuel composition of claim 52 further comprising at least one additive selected from the group consisting of octane improvers, cetane improvers, detergents, corrosion inhibitors, metal deactivators, ignition accelerators, dispersants, anti-knock additives, anti-run-on additives, anti-pre-ignition additives, anti-misfire additives, anti-wear additives, antioxidants, demulsifiers, carrier fluids, solvents, fuel economy additives, emission reduction additives, lubricity improvers, oxygenates and mixtures thereof.

61. Claims 61 – 69. (Canceled)

70. (Currently amended) A two-cycle fuel composition comprising a base feed and at least one additive wherein the additive comprises:  
a plant oil extract selected from the group consisting of hops oil extract, fescue oil extract, barley oil extract, green clover oil extract, wheat oil extract and mixtures thereof;  
a carotenoid; and  
a thermal stabilizer.

71. (Currently amended) The two-cycle fuel composition of claim 76 wherein the carotenoid is selected from the group consisting of  $\beta$ -carotene,  $\alpha$ -carotene, lycopene, leutin, betatene and mixtures thereof.

72. (Currently amended) The two-cycle fuel composition of claim 76, wherein the thermal stabilizer is selected from the group consisting of vegetable oils, nut oils, animal oils and mixtures thereof.

73. (Currently amended) The two-cycle fuel composition of claim 70 wherein the plant oil extract is derived from barley and the carotenoid is  $\beta$ -carotene.

- 74. (Currently amended) The two-cycle fuel composition of claim 70 wherein the thermal stabilizer is meadowfoam oil.
- 75. (Currently amended) The two-cycle fuel composition of claim 70 further comprising a diluent.
- 76. (Currently amended) The two-cycle fuel composition of claim 70 further comprising a solvent selected from the group consisting of toluene, benzene, o-xylene, m-xylene, p-xylene, cyclohexanes, hexane, octanes, nonanes, jet fuel, gasoline, diesel fuel, 2 cycle oil, resid fuel and mixtures thereof.
- 77. (Currently amended) The two-cycle fuel composition of claim 70 further comprising at least one additive selected from the group consisting of octane improvers, cetane improvers, detergents, corrosion inhibitors, metal deactivators, ignition accelerators, dispersants, anti-knock additives, anti-run-on additives, anti-pre-ignition additives, anti-misfire additives, anti-wear additives, antioxidants, demulsifiers, carrier fluids, solvents, fuel economy additives, emission reduction additives, lubricity improvers, oxygenates and mixtures thereof.
- 78. (Canceled)
- 79. (Canceled)
- 80. (Canceled)
- 81. (Canceled)
- 82. (Canceled)
- 83. (Canceled)
- 84. (Currently amended) A two-cycle fuel additive comprising:
  - a hydrophobic plant oil extract;
  - a carotenoid;

a thermal stabilizer selected from the group consisting of peanut oil, cottonseed oil, rape seed oil, macadamia oil, avocado oil, palm oil, palm kernel oil, meadowfoam oil and mixtures thereof; and

a solvent selected from the group consisting of toluene, benzene, o-xylene, m-xylene, p-xylene, cyclohexanes, hexane, octanes, nonanes, diesel fuel, jet fuel, two-cycle oil, gasoline, resid fuel and mixtures thereof.

85. (Previously presented) The two-cycle fuel additive of claim 84 further comprising at least one additive selected from the group consisting of octane improvers, cetane improvers, detergents, corrosion inhibitors, metal deactivators, ignition accelerators, dispersants, anti-knock additives, anti-run-on additives, anti-pre-ignition additives, anti-misfire additives, anti-wear additives, antioxidants, demulsifiers, carrier fluids, solvents, fuel economy additives, emission reduction additives, lubricity improvers, oxygenates and mixtures thereof.
86. (Previously presented) The additive of claim 84, wherein the carotenoid is selected from the group consisting of  $\beta$ -carotene,  $\alpha$ -carotene, lycopene, leutin, betatene and mixtures thereof.
87. (Previously presented) The additive of claim 84 wherein the plant oil extract is barley oil extract, and the carotenoid is  $\beta$ -carotene.
88. (Previously presented) The additive of claim 84 further comprising meadowfoam oil.
89. (Currently amended) A two-cycle fuel additive comprising a base fuel and at least one additive wherein the additive comprises:
- a plant oil extract derived from grain or a member of the Leguminosue family;
  - a carotenoid; and
  - a thermal stabilizer selected from the group consisting of

peanut oil, cottonseed oil, rape seed oil, macadamia oil, avocado oil, palm oil, palm kernel oil, meadowfoam oil, castor oil and mixtures thereof.

90. (Currently amended) The ~~two-cycle fuel~~ additive of claim 89 wherein the plant oil extract is barely oil extract and the carotenoid is  $\beta$ -carotene.
91. (Canceled)
92. (Canceled)
93. (Previously presented) A two-cycle fuel additive comprising:
  - a plant oil extract derived from barley;
  - $\beta$ -carotene; and
  - meadowfoam oil.
94. (Previously presented) The additive of claim 93 further comprising a solvent selected from the group consisting of toluene, benzene, o-xylene, m-xylene, p-xylene, cyclohexanes, hexane, octanes, ~~mononanes~~, gasoline, 2-cycle oil, diesel fuel, jet fuel, resid fuel and mixtures thereof.
95. (Previously presented) The additive of claim 93 further comprising at least one additive selected from the group consisting of:
  - octane improvers, cetane improvers, detergents, corrosion inhibitors, metal deactivators, ignition accelerators, dispersants, anti-knock additives, anti-run-on additives, anti-pre-ignition additives, anti-misfire additives, anti-wear additives, antioxidants, demulsifiers, carrier fluids, solvents, fuel economy additives, emission reduction additives, lubricity improvers, oxygenates and mixtures thereof.